

CLAIM AMENDMENTS

Claim Amendment Summary

Claims pending

- At time of the Action: Claims 1-37 and 46-47.
 - After this Response: Claims 1, 2, 6-18, and 20-37.

Canceled or Withdrawn claims: 3-5, 19, and 46-47.

Amended claims: 1, 6, 13, 16, 20, 23-27, 31, and 35.

New claims: none.

CLAIMS:

1. (CURRENTLY AMENDED) A method for facilitating the insertion of information into a video signal, the method comprising:

embedding an information pattern in one or more regions of the video signal, a region comprising a plurality successive frames;

locating the one or more regions of the video signal by randomly selecting frames of the signal, where each of the regions includes at least one of the selected frames:

wherein, for one or more regions, the information pattern is embedded into a frame of a region with a relative degree of intensity and one or more frames of that region have the patterns embedded therein which have a relative intensity.

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RESPONSE TO NON-FINAL OFFICE ACTION
DATED 8/1/2004

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atty. Kasey C. Chrylate

PAGE 4/16 * RCVT AT 10/12/2004 12:48:46 PM [Eastern Daylight Time] * SVR:USPTO-EFXRF-1/3 * DNI5:8729306 * CSID:509 323 8979 * DURATION (mm:ss):04:14

1 intensity that differs from the relative intensity of the pattern embedded in other
2 frames of the region.

3
4 2. (ORIGINAL) A method as recited in claim 1 for facilitating the
5 protection of a video signal, wherein the information pattern is a watermark.

6
7 3. (CANCELED)

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9 4. (CANCELED)

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11 5. (CANCELED)

12
13 6. (CURRENTLY AMENDED) A method as recited in claim 1 further
14 comprising for facilitating the insertion of information into a video signal, the
15 method comprising:

16 embedding an information pattern in one or more regions of the video
17 signal, a region comprising a plurality successive frames;

18 specifying the dimensions of the one or more regions of the video signal;
19 wherein, for one or more regions, the information pattern is embedded into
20 a frame of a region with a relative degree of intensity and one or more frames of
21 that region have the patterns embedded therein which have a relative intensity that
22 differs from the relative intensity of the pattern embedded in other frames of the
23 region.

1 7. (ORIGINAL) A method as recited in claim 1 further comprising
2 determining hash values of one or more frames of one or more of the regions of
3 the video signal.

4
5 8. (ORIGINAL) A method as recited in claim 1 further comprising:
6 determining hash values of one or more frames of one or more of the
7 regions of the video signal;
8 persisting the hash values with an association with the video signal.

9
10 9. (ORIGINAL) A method as recited in claim 1, wherein, for one or
11 more regions, the information pattern is embedded into a frame of a region in a
12 plateau-shaped manner.

13
14 10. (ORIGINAL) A method as recited in claim 1, wherein, for one or
15 more regions, the relative intensity of information pattern embedded into a group
16 of successive frames of the plurality of a region is substantially identical.

17
18 11. (ORIGINAL) A method as recited in claim 1, wherein, for one or
19 more regions, the relative intensity of information pattern embedded into a group
20 of successive frames of the plurality of a region is approximately similar.

21
22 12. (ORIGINAL) A method as recited in claim 1, wherein, for one or
23 more regions, the relative intensity of information pattern embedded into a group
24 of successive frames of the plurality of a region is gradient.

1 13. (CURRENTLY AMENDED) A modulated video signal generated in
2 accordance with a method as recited in claim 1 and embodied on one or more
3 computer-readable media.

4

5 14. (ORIGINAL) A computer-readable medium having computer-
6 executable instructions that, when executed by a computer, performs a method as
7 recited in claim 1.

8

9 15. (ORIGINAL) A computer comprising one or more computer-
10 readable media having computer-executable instructions that, when executed by
11 the computer, perform a method as recited in claim 1.

12

13 16. (CURRENTLY AMENDED) A method for facilitating the protection
14 of a video signal, the method comprising:

15 locating one or more watermark regions of a video signal for embedding a
16 watermark therein, a region comprising a plurality successive frames;
17 for one or more watermark regions, embedding a watermark in a watermark
18 region in an approximate plateau-shaped manner;

19 wherein the locating comprises randomly locating the one or more regions
20 by randomly selecting frames of the signal, where each of the regions includes at
21 least one of the selected frames.

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1 17. (ORIGINAL) A method as recited in claim 16, wherein the
2 watermark is embedded into a frame of the region with a relative degree of
3 intensity and one or more frames of that region have a watermark embedded
4 therein which has a relative intensity that differs from the relative intensity of the
5 watermark embedded in other frames of that region.

6
7 18. (ORIGINAL) A method as recited in claim 16, wherein the locating
8 comprises randomly locating the one or more regions.

9
10 19. (CANCELED)

11
12 20. (CURRENTLY AMENDED) A method for facilitating the protection
13 of a video signal, the method comprising: ~~as recited in claim 16 further comprising~~
14 locating one or more watermark regions of a video signal for embedding a
15 watermark therein, a region comprising a plurality successive frames;

16 for one or more watermark regions, embedding a watermark in a watermark
17 region in an approximate plateau-shaped manner;

18 specifying the dimensions of the one or more regions of the video signal.

19
20 21. (ORIGINAL) A method as recited in claim 16 further comprising
21 determining hash values of one or more frames of one or more of the regions of
22 the video signal.

1 **22. (ORIGINAL)** A method as recited in claim 16 further comprising:
2 determining hash values of one or more frames of one or more of the
3 regions of the video signal;
4 persisting the hash values with an association with the video signal.

5
6 **23. (CURRENTLY AMENDED)** A method as recited in claim 16,
7 wherein, for one or more regions, the ~~information pattern~~ watermark is embedded
8 into a frame of a region in a plateau-shaped manner.

9
10 **24. (CURRENTLY AMENDED)** A method as recited in claim 16,
11 wherein, for one or more regions, the relative intensity of ~~the information pattern~~
12 watermark embedded into a group of successive frames of the plurality of a region
13 is substantially identical.

14
15 **25. (CURRENTLY AMENDED)** A method as recited in claim 16,
16 wherein, for one or more regions, the relative intensity of ~~the information pattern~~
17 watermark embedded into a group of successive frames of the plurality of a region
18 of a region is approximately similar.

19
20 **26. (CURRENTLY AMENDED)** A method as recited in claim 16,
21 wherein, for one or more regions, the relative intensity of ~~the information pattern~~
22 watermark embedded into a group of successive frames of the plurality of a region
23 is gradient.

1 **27. (CURRENTLY AMENDED)** A modulated video signal generated in
2 accordance with a method as recited in claim 16 and embodied on one or more
3 computer-readable media.

4

5 **28. (ORIGINAL)** A computer-readable medium having computer-
6 executable instructions that, when executed by a computer, performs a method as
7 recited in claim 16.

8

9 **29. (ORIGINAL)** A computer comprising one or more computer-
10 readable media having computer-executable instructions that, when executed by
11 the computer, perform a method as recited in claim 16.

12

13 **30. (ORIGINAL)** A method for facilitating the protection of a video
14 signal, the method comprising:

15 fully encoding one or more frames of a region of a video signal with a
16 watermark, wherein such frames are fully encoded with the watermark relative to
17 unmarked frames;

18 partially encoding one or more frames of the region with the watermark,
19 wherein such frames are partially encoded with the watermark relative to the
20 frames of the fully encoding.

21

22 **31. (CURRENTLY AMENDED)** A modulated video signal generated in
23 accordance with a method as recited in claim 30 and embodied on one or more
24 computer-readable media.

1 32. (ORIGINAL) A computer-readable medium having computer-
2 executable instructions that, when executed by a computer, performs a method as
3 recited in claim 30.

4

5 33. (ORIGINAL) A computer comprising one or more computer-
6 readable media having computer-executable instructions that, when executed by
7 the computer, perform a method as recited in claim 30.

8

9 34. (ORIGINAL) A method for facilitating the protection of a video
10 signal, the method comprising:

11 fully encoding one or more frames of a region of a video signal with a
12 watermark, wherein the frames are fully encoded with the watermark relative to
13 unmarked frames;

14 gradiently encoding at least one plurality of successive frames of the region
15 with the watermark, wherein the plurality is gradiently encoded with the
16 watermark relative to the unmarked frames and the fully encoded frames of the
17 fully encoding.

18

19 35. (CURRENTLY AMENDED) A modulated video signal generated in
20 accordance with a method as recited in claim 34 and embodied on one or more
21 computer-readable media.

1 36. (ORIGINAL) A computer-readable medium having computer-
2 executable instructions that, when executed by a computer, performs a method as
3 recited in claim 34.

4

5 37. (ORIGINAL) A computer comprising one or more computer-
6 readable media having computer-executable instructions that, when executed by
7 the computer, perform a method as recited in claim 34.

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9 Claims 38-45 and 48 are NON-ELECTED AND THUS CANCELED.

10 Claims 46-47 are CANCELED.

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